

Appendix VII

Alignment of instant SEQ ID NO:3 with SEQ ID NO: 18 of Sisk et al.

Score = 4913 bits (2660), Expect = 0.0
 Identities = 2660/2660 (100%), Gaps = 0/2660 (0%)
 Strand=Plus/Plus

Query	1	GAATTCAGCACTGAATCATGCCCCAGAACCCCGCAATCTATTGGCTGTGCTTTGGCCCCCT	60
Sbjct	1	GAATTCAGCACTGAATCATGCCCCAGAACCCCGCAATCTATTGGCTGTGCTTTGGCCCCCT	60
Query	61	TTTCCCAACACACACATTCTGTCTGTGGTGGAGGGGAAACATGCGGGGAGGAGGAAAG	120
Sbjct	61	TTTCCCAACACACACATTCTGTCTGTGGTGGAGGGGAAACATGCGGGGAGGAGGAAAG	120
Query	121	GAATAGGATAGAGAGTGGGATGGGGTCGGTAGGGGCTCAAGGACTGGCCATCTCTGACA	180
Sbjct	121	GAATAGGATAGAGAGTGGGATGGGGTCGGTAGGGGCTCAAGGACTGGCCATCTCTGACA	180
Query	181	TCCTTCCTCCGCTTCAGGTTGGCCACCATGGCTGCTGCCAGAGGGGACCCACGTGACCC	240
Sbjct	181	TCCTTCCTCCGCTTCAGGTTGGCCACCATGGCTGCTGCCAGAGGGGACCCACGTGACCC	240
Query	241	TTAAAGAGAGGACAAAGTTGGGTGGTATCTCTGGCTGACATCTGTGTCACAAACCTTCACAA	300
Sbjct	241	TTAAAGAGAGGACAAAGTTGGGTGGTATCTCTGGCTGACATCTGTGTCACAAACCTTCACAA	300
Query	301	CGCTGGTGATGGTGGGAAGGGAAGATGACAAGTCAGGGGGCATGATCCACGATGTGTG	360
Sbjct	301	CGCTGGTGATGGTGGGAAGGGAAGATGACAAGTCAGGGGGCATGATCCACGATGTGTG	360
Query	361	GGAGGAGCTTCTAAATTATCCATTAGCACAAAGCCGTCAGTGGCCCCAGGCCATAACATG	420
Sbjct	361	GGAGGAGCTTCTAAATTATCCATTAGCACAAAGCCGTCAGTGGCCCCAGGCCATAACATG	420
Query	421	CAGAGAAACAGGTGAGGAGAAGCAGCGAGAGAGAAGGGGCCAGGTATAAAAAGGCCAC	480
Sbjct	421	CAGAGAAACAGGTGAGGAGAAGCAGCGAGAGAGAAGGGGCCAGGTATAAAAAGGCCAC	480
Query	481	AAGAGACCAGCTCAAGGATCCCAAGGCCCAACTCCCCGAACCACTCAGGGTCTGTGGAC	540
Sbjct	481	AAGAGACCAGCTCAAGGATCCCAAGGCCCAACTCCCCGAACCACTCAGGGTCTGTGGAC	540
Query	541	AGCTCACTAGCGGCAATGGCTGCAGGTAGCGGCCCTTAAATCCCTTTGGCACAATGTGT	600
Sbjct	541	AGCTCACTAGCGGCAATGGCTGCAGGTAGCGGCCCTTAAATCCCTTTGGCACAATGTGT	600
Query	601	CCTGAGGGGAGAGGCGGCTCTCTGTAGATGGGACGGGGCACTAACCTCAGGTTTGGGG	660
Sbjct	601	CCTGAGGGGAGAGGCGGCTCTCTGTAGATGGGACGGGGCACTAACCTCAGGTTTGGGG	660
Query	661	CTTATGAATGTAGCTATCGCCATCTAAGCCCACTATTGGCCAAATCTCTGAATGTTCCT	720
Sbjct	661	CTTATGAATGTAGCTATCGCCATCTAAGCCCACTATTGGCCAAATCTCTGAATGTTCCT	720
Query	721	GGTCCCTGGAGGAGGACAGAGAGAGAGAGAGAAAAAAACCCAGCTCCTGGAACAGG	780
Sbjct	721	GGTCCCTGGAGGAGGACAGAGAGAGAGAGAGAAAAAAACCCAGCTCCTGGAACAGG	780
Query	781	GAGAGCGCTGGCCCTCTTGCTCTCCAGCTCCCTCTGTGTGCTCCGGTTTCCTCCCAAGGCT	840
Sbjct	781	GAGAGCGCTGGCCCTCTTGCTCTCCAGCTCCCTCTGTGTGCTCCGGTTTCCTCCCAAGGCT	840

Query	841	CCGGACGTCCCTGCTCCTGGGCTTTTGGCCTGCTCTGCTGTGCTGGCTTCAAGAGGGCAG	900
Shjet	841	CCGGACGTCCCTGCTCCTGGGCTTTTGGCCTGCTCTGCTGTGCTGGCTTCAAGAGGGCAG	900
Query	901	TGCTTTCCCAACCATTCCTTATTCAGGCTTTTGTACAACGCTATGCTCCGCGCCGCTCG	960
Shjet	901	TGCTTTCCCAACCATTCCTTATTCAGGCTTTTGTACAACGCTATGCTCCGCGCCGCTCG	960
Query	961	CTGTATCCAGCTGGGCATATGACACCTATCAGGAGTTTGTAAAGCTTTGGGTAAATGGGTGC	1020
Shjet	961	CTGTATCCAGCTGGGCATATGACACCTATCAGGAGTTTGTAAAGCTTTGGGTAAATGGGTGC	1020
Query	1021	GCCTTCAGAGGTGGCAGGAAGGGGTGAATTTTCCCCGCTGGGAAGTATGGGAGGAGACTA	1080
Shjet	1021	GCCTTCAGAGGTGGCAGGAAGGGGTGAATTTTCCCCGCTGGGAAGTATGGGAGGAGACTA	1080
Query	1081	AGGAGCTCAGGGTTTGTTTTGTGAAGTGAATAAGCAGGCAGATGAGCATACGCTGATGAG	1140
Shjet	1081	AGGAGCTCAGGGTTTGTTTTGTGAAGTGAATAAGCAGGCAGATGAGCATACGCTGATGAG	1140
Query	1141	GTTCCTCAGAAAAGTAACAAATGGGAGCAGGCTCTCCAGCATAGACCTTGTGTGGCGGCTCCTT	1200
Shjet	1141	GTTCCTCAGAAAAGTAACAAATGGGAGCAGGCTCTCCAGCATAGACCTTGTGTGGCGGCTCCTT	1200
Query	1201	CTCTTAGGAAGAAGCCTATATCTCTGAAGGAGCAGAAGTATTCATCTCTGCAGAAACCCCA	1260
Shjet	1201	CTCTTAGGAAGAAGCCTATATCTCTGAAGGAGCAGAAGTATTCATCTCTGCAGAAACCCCA	1260
Query	1261	GACCTCCCTCTGCTTCTCAGAGTCTATTCCAACACCTTCCAAACAGGGTGAAGACGACGA	1320
Shjet	1261	GACCTCCCTCTGCTTCTCAGAGTCTATTCCAACACCTTCCAAACAGGGTGAAGACGACGA	1320
Query	1321	GAAATCTGTAGTGTGATGCTTCTCTCCAGGTGGGATGGGATAGACCTGTGTGTACAGACC	1380
Shjet	1321	GAAATCTGTAGTGTGATGCTTCTCTCCAGGTGGGATGGGATAGACCTGTGTGTACAGACC	1380
Query	1381	CCCGGGCAGCAGCAGCCACTGCGGGTCTTCCCCGTGCAGAACCTAGAGCTGCTTCGCATCT	1440
Shjet	1381	CCCGGGCAGCAGCAGCCACTGCGGGTCTTCCCCGTGCAGAACCTAGAGCTGCTTCGCATCT	1440
Query	1441	CCCTGCTGCTCATCCAGTCTATGGCTGGAGCCGCTGCAGCTCCTCAGGAGCGCTTTCGCCA	1500
Shjet	1441	CCCTGCTGCTCATCCAGTCTATGGCTGGAGCCGCTGCAGCTCCTCAGGAGCGCTTTCGCCA	1500
Query	1501	ACAGCTCTGTGTATGGCGCCTCTGGACAGCAACGCTTATCTGCCACCTGAAGACCTAGAGG	1560
Shjet	1501	ACAGCTCTGTGTATGGCGCCTCTGGACAGCAACGCTTATCTGCCACCTGAAGACCTAGAGG	1560
Query	1561	AAGGCATCCAAACGCTGATGTGGGTGGGGTGGCACCAGGATCCAATCCTGGGGGCCCCAC	1620
Shjet	1561	AAGGCATCCAAACGCTGATGTGGGTGGGGTGGCACCAGGATCCAATCCTGGGGGCCCCAC	1620
Query	1621	TGGCTTCCAGGGACTGGGGAGAGAAACACTGCTGCCCCCTTTTTAGCAGTCAAGGCGCTGA	1680
Shjet	1621	TGGCTTCCAGGGACTGGGGAGAGAAACACTGCTGCCCCCTTTTTAGCAGTCAAGGCGCTGA	1680
Query	1681	CCCAGAGAACTCACCCTATTCTTCAATTTCCCCCTGTGAATCTCCAGGCGCTTCTCTAC	1740
Shjet	1681	CCCAGAGAACTCACCCTATTCTTCAATTTCCCCCTGTGAATCTCCAGGCGCTTCTCTAC	1740
Query	1741	AACCTTGAAGGGGAGGAGGAAATGGATGAATGAGAGGGGAGGGAACAGTGGCCCAAGCG	1800
Shjet	1741	AACCTTGAAGGGGAGGAGGAAATGGATGAATGAGAGGGGAGGGAACAGTGGCCCAAGCG	1800

Query	1801	CTTGGCCTCTCCCTTCCTCTTCCCTTCACCTTTGACAGAGGGCTGGAAAGATGGCAGCCCCGGACT	1860
Subject	1801	CTTGGCCTCTCCCTTCCTCTTCCCTTCACCTTTGACAGAGGGCTGGAAAGATGGCAGCCCCGGACT	1860
Query	1861	GGGCGAGATCTTCAATCACTGCTCTACAGCAAGTTTGACACAAAATGCCACAACGATGACGCA	1920
Subject	1861	GGGCGAGATCTTCAATCACTGCTCTACAGCAAGTTTGACACAAAATGCCACAACGATGACGCA	1920
Query	1921	CTGCTCAAGAACTACGGGCTGCTCTACTGCTCTCAGGAAGGACATGACAAGGTCGAGACA	1980
Subject	1921	CTGCTCAAGAACTACGGGCTGCTCTACTGCTCTCAGGAAGGACATGACAAGGTCGAGACA	1980
Query	1981	TTCTTCGCGCATCTGTGCACTGCCGCTCTGTGGAGGGCAGCTGTGGCTTCTAGCTGCCCGGG	2040
Subject	1981	TTCTTCGCGCATCTGTGCACTGCCGCTCTGTGGAGGGCAGCTGTGGCTTCTAGCTGCCCGGG	2040
Query	2041	TGCGATCCCTGTGACCCCTCCCACTGCTCTCTCTGCTGTGAGAAAGTGTCTACTCCAGTG	2100
Subject	2041	TGCGATCCCTGTGACCCCTCCCACTGCTCTCTCTGCTGTGAGAAAGTGTCTACTCCAGTG	2100
Query	2101	CCCACAGCGCTTGTCTAAATAAAATAAGTTGCATCATTTTGTATTGACTAGGTGTCTCTTG	2160
Subject	2101	CCCACAGCGCTTGTCTAAATAAAATAAGTTGCATCATTTTGTATTGACTAGGTGTCTCTTG	2160
Query	2161	TATAATATATATGGGGTGGAGGCGGGTGGTATGGAGCAAGGGGCCAGGTTGGGAAGACAAC	2220
Subject	2161	TATAATATATATGGGGTGGAGGCGGGTGGTATGGAGCAAGGGGCCAGGTTGGGAAGACAAC	2220
Query	2221	CTGTAGGGCCTTCAGGGTCTATTCTGGGAACACAGGCTGGAGTGCAGTGTCTTGGCTC	2280
Subject	2221	CTGTAGGGCCTTCAGGGTCTATTCTGGGAACACAGGCTGGAGTGCAGTGTCTTGGCTC	2280
Query	2281	GCTGCAATCTCCGCTCTCTGGGTTCAGCGGATTTCTCTGCTCAGTCTCCCGAATAGTTG	2340
Subject	2281	GCTGCAATCTCCGCTCTCTGGGTTCAGCGGATTTCTCTGCTCAGTCTCCCGAATAGTTG	2340
Query	2341	CGAATTCAGGCAATGCAAGACAGGCTCAGCTAAATTTTGTATTTTTGGTAGAGACGGGTT	2400
Subject	2341	CGAATTCAGGCAATGCAAGACAGGCTCAGCTAAATTTTGTATTTTTGGTAGAGACGGGTT	2400
Query	2401	TTACCATATATGGGCACTGTGCTTCTTCCATCTCTGACCTCAGGTAATCCGCGCGCTCGG	2460
Subject	2401	TTACCATATATGGGCACTGTGCTTCTTCCATCTCTGACCTCAGGTAATCCGCGCGCTCGG	2460
Query	2461	CCTCCCAAAATGTCTGGGAATTACAGGTATAGCGCACTGGGCGCTTCCCTGTCTGTGGAATTT	2520
Subject	2461	CCTCCCAAAATGTCTGGGAATTACAGGTATAGCGCACTGGGCGCTTCCCTGTCTGTGGAATTT	2520
Query	2521	TAAATAATATATACAGCAGAGAAGACGTCCAGACACAGCATGGGCTACCTGGCCATGCCC	2580
Subject	2521	TAAATAATATATACAGCAGAGAAGACGTCCAGACACAGCATGGGCTACCTGGCCATGCCC	2580
Query	2581	AGCCAGTTGGACATTGTAGTGTGTTTGTCTGGCACTGTCTCTCATGCAATTGGGTCCACTC	2640
Subject	2581	AGCCAGTTGGACATTGTAGTGTGTTTGTCTGGCACTGTCTCTCATGCAATTGGGTCCACTC	2640
Query	2641	AGTAGATGCTTGTGTAATTC	2660
Subject	2641	AGTAGATGCTTGTGTAATTC	2660